



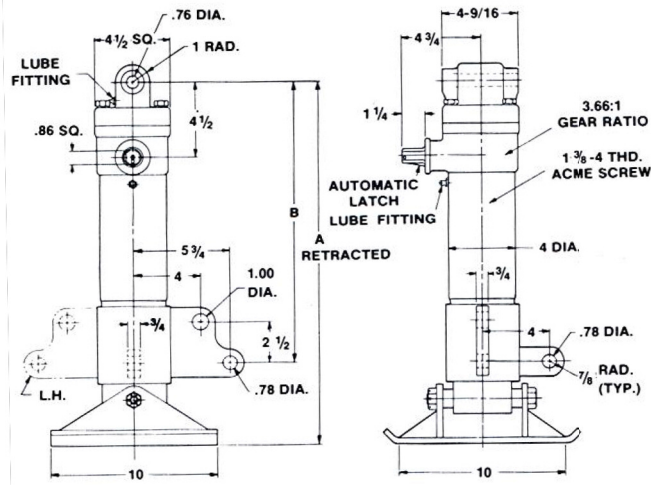
31000 Series Jacks

Seven basic models that meet most every lifting requirement up to 10,000 pounds.

Features:

- 1. Versatile** jacks can operate vertically or horizontally to raise, lower or push your load. Units requiring tension load capability are available on special application.
- 2. Compact** single package unit does away with cylinders or other space consuming arrangements.
- 3. Complete protection of screw & critical parts** by inner and outer tube enclosure. Round tubes in 10,000 lb. models assure precision fit and extreme mounting rigidity. Other models have square tube construction. Special tube locks available where side movement must be completely eliminated.
- 4. Automatic latch & self-locking design** provides double safety against rotation of jack screw under vibration or extreme loading conditions. No need for brakes or expensive locking devices. Automatic latch is standard in 7,500 lb. and 10,000 lb. models. Latch actuates when crank handle is removed from assembly.
- 5. Can take side loads** resulting from uneven terrain, off-center loading, and eccentric mounting methods.
- 6. High efficiency bevel gear-heads** with 3.1 or 3.66 gear ratios in 5,000 lb., 7,500 lb. and 10,000 lb. models. Gearheads have precision tapered thrust bearing steel or bronze driveshaft bushings, large lubricant reservoir. 500 lb. and 1,800 lb. models operate on direct screw drive.
- 7. Stowable** solves ground clearance problem. Trunnion mount 31000 and 31020 models swing up and out of the way...are easily attached to trailer in the horizontal position.
- 8. Corrosion-resistant finish** all jacks are treated with protective phosphate to Mil-P-16232 and are prime painted with red oxide per Mil-TT-P-636. All hardware is zinc or cadmium plated.

CASTER JACKS



10,000 lbs. capacity - stowable

Part Number	Stroke	A	B	Side Load Lb.	WGT.
31000-6 L or R	6	22	17	11600	71
31000-12 L or R	12	28	23	7000	83
31000-18 L or R	18	34	29	5000	95

Note: *Maximum static side load to yield. combined with maximum operating load. Unit must be securely fixed at connecting points.

Basic Data:

- 14.6 revs. input for 1 inch of stroke.
- 10,000 lb. maximum operating load, compression.
- 25,000 lb. maximum static compression to yield.
- Approx. 380 inch lb. torque input at maximum operating load.
- Specify crank: 8 inches. Part No. 10582-K or 12 inch, Part No. 10582-M.

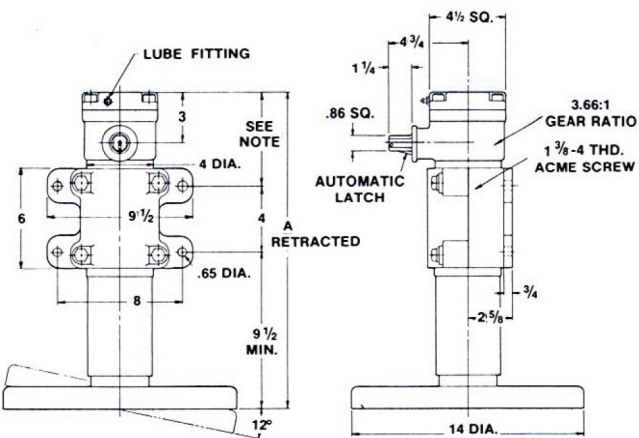
10,000 lbs. capacity - rigid mount

Part Number	Stroke	A	B	Side Load Lb.	WGT.
31010-6 L or R	6	22	19	6300	86
31010-12 L or R	12	28	25	3600	98
31010-18 L or R	18	34	31	2500	100

Note: *Maximum static side load to yield. combined with maximum operating load. Unit must be securely fixed at mounting point of jack side plate to frame member. Adjustable clamp bracket may be adjusted along entire length of tube toward gear head on -12 to -18 models. As a precaution it is advisable to weld bracket to outer tube, on all units, after location of proper mounting height is determined to prevent possible slippage.

Basic Data:

- 14.6 revs. input for 1 inch of stroke.
- 10,000 lb. maximum operating load, compression.
- 25,000 lb. maximum static compression to yield.
- Approx. 380 inch lb. torque input at maximum operating load.
- Specify crank: 8 inches. Part No. 10582-K or 12 inch, Part No. 10582-M.



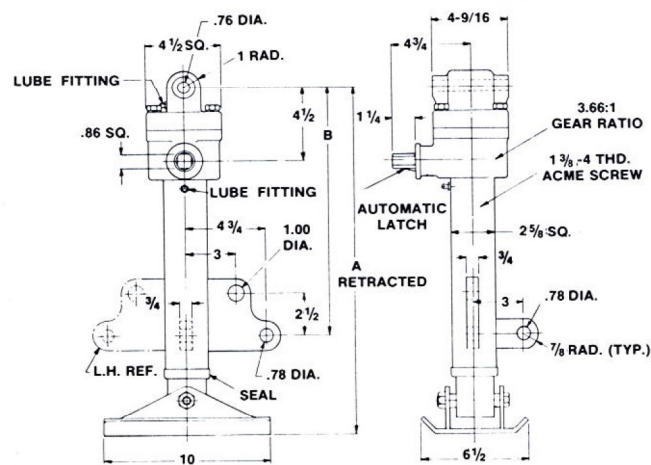
7,500 lbs. capacity - stowable

Part Number	Stroke	A	B	Side Load Lb.	WGT.
31020-6 L or R	6	21	15	850	45
31020-12 L or R	12	27	21	500	52
31020-18 L or R	18	33	27	400	59

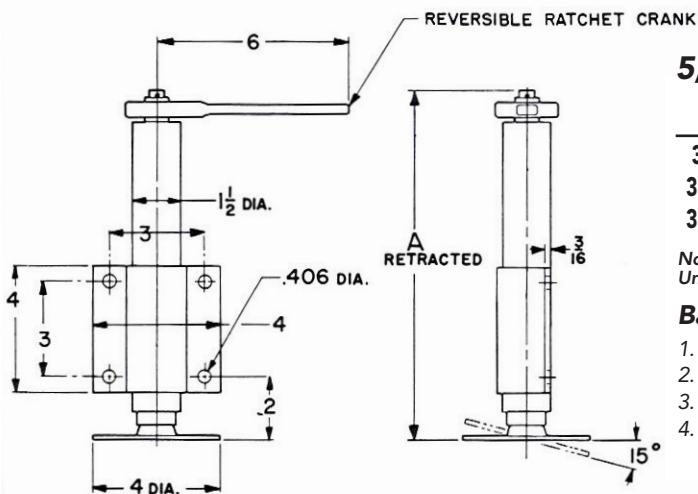
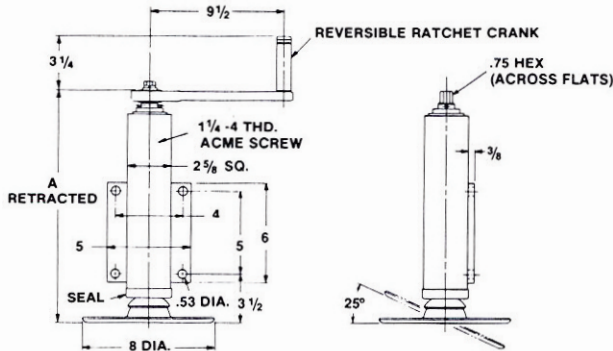
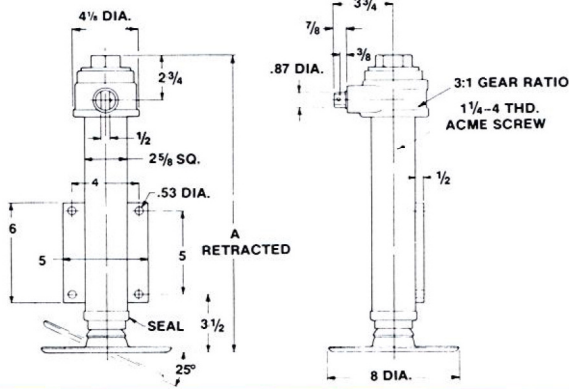
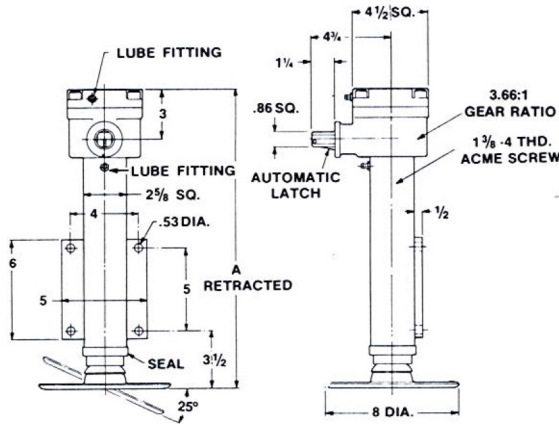
Note: *Maximum static side load to yield. combined with maximum operating load. Unit must be securely fixed at connecting points.

Basic Data:

- 14.6 revs. input for 1 inch of stroke.
- 7,500 lb. maximum operating load, compression.
- 22,000 lb. maximum static compression to yield.
- Approx. 285 inch lb. torque input at maximum operating load.
- Specify crank: 8 inches. Part No. 10582-K or 12 inch, Part No. 10582-M.
- Available with 14" dia. all terrain foot pad. Specify Part No. 31022-6 etc.



CASTER JACKS



7,500 lbs. capacity - rigid mount

Part Number	Stroke	A	Side Load Lb.	WGT.
31030-6 L or R	6	18	1100	45
31030-12 L or R	12	24	600	52
31030-18 L or R	18	30	400	59

Note: *Maximum static side load to yield. combined with maximum operating load. Unit must be securely fixed at mounting point of jack side plate to frame member.

Basic Data:

- 14.6 revs. input for 1 inch of stroke.
- 7,500 lb. maximum operating load, compression.
- 22,000 lb. maximum static compression to yield.
- Approx. 285 inch lb. torque input at maximum operating load.
- Specify crank: 8 inches. Part No. 10582-K or 12 inch, Part No. 10582-M.

5,000 lbs. capacity - rigid mount

Part Number	Stroke	A	Side Load Lb.	WGT.
31040-6 L or R	6	18	1100	35
31040-12 L or R	12	24	600	42
31040-18 L or R	18	30	400	49

Note: *Maximum static side load to yield. combined with maximum operating load. Unit must be securely fixed at mounting point of jack side plate to frame member.

Basic Data:

- 12 revs. input for 1 inch of stroke.
- 5,000 lb. maximum operating load, compression.
- 15,000 lb. maximum static compression to yield.
- Approx. 235 inch lb. torque input at maximum operating load.
- Specify crank: 8 inches. Part No. 14168-4.

1,800 lbs. capacity - rigid mount

Part Number	Stroke	A	Side Load Lb.	WGT.
31050-6 L or R	6	16	1200	18
31050-12 L or R	12	22	700	25
31050-18 L or R	18	28	500	32

Note: *Maximum static side load to yield. combined with maximum operating load. Unit must be securely fixed at mounting point of jack side plate to frame member.

Basic Data:

- 4 revs. input for 1 inch of stroke.
- 1,800 lb. maximum operating load, compression.
- 4,500 lb. maximum static compression to yield.
- Approx. 240 inch lb. torque input at maximum operating load.
- Furnished with 8 inch crank as shown.

5,000 lbs. capacity - rigid mount

Part Number	Stroke	A	Side Load Lb.	WGT.
31060-6 L or R	3	10	800	5
31060-12 L or R	6	13	450	7
31060-18 L or R	6	16	300	9

Note: *Maximum static side load to yield. combined with maximum operating load. Unit must be securely fixed at mounting point of jack side plate to frame member.

Basic Data:

- 6 revs. input for 1 inch of stroke.
- 500 lb. maximum operating load, compression.
- 4,000 lb. maximum static compression to yield.
- Approx. 80 inch lb. torque input at maximum operating load.

Glossary of terms

Actuation

A method of applying torque to the input shaft of a jack assembly.

Caster Jack

The combination of a jack assembly with a rigid plate on the bottom of the inner tube assembly being mated with a caster assembly.

Caster Offset

The horizontal distance between the vertical center lines of the kingpin and axle.

Extended Height

The overall length of a jack assembly at full extension. This dimension is from the center line of a trunnion hole on a stowable type jack, or the top of the gear housing cap on a rigid jack, to the bottom of the footpad or caster.

Finish

All jacks are treated with protective phosphate to Mil-P-16232 and are prime painted with red oxide per Mil-TT-P-636.

Footpad

The lower portion of a jack assembly which makes contact with the ground.

Handle Pull

The calculated force required to turn the crank handle while elevating the load.

Lifting Capacity

The load to be elevated or lowered by each jack.

Lubrication

All jacks are factory lubricated with Mil-G-10924 high-low temperature grease -65° to 175° fahrenheit.

Non-Offset Caster

The vertical center line of the jack passes through the center line of the axle.

Retracted Height

The overall length of a jack assembly at full retraction. This dimension is from the center line of a trunnion hole on a stowable type jack, or the top of the gear housing cap on a rigid jack, to the bottom of the footpad or caster.

Rigid Caster

A complete non-swiveling caster with wheel mounted.

Rigid Mounting

The incorporation of a plate welded or bolted to the outer tube assembly of a jack. When this unit is attached to the load member, a rigid connection is obtained to enable a load to be elevated.

Side Load

The maximum static load to be imposed on each jack laterally.

Stowable Mounting

Connection of a jack to the load member through the use of a trunnion and stay bar assembly, which will allow the jack to be tilted or stored in the horizontal position when not in use.

Swivel Caster

A complete caster with wheel mounted so that it will turn freely throughout 360° about its swivel bearing assembly and kingpin.

Swivel Lock

A positive 4- position plunger type lock-out device used to prevent a swivel caster from swiveling when a lateral load is applied.

Torque Input

The amount of force calculated in inch-pounds required to turn the input shaft while elevating the load.

Vertical Load

The maximum static load to be imposed on each jack vertically.

Wheel Brake

A manually actuated brake device used to prevent the caster wheel from revolving when a side load is applied.